

Faculty Profile

Name : **Dr.ARAVINDRAO M. YADWAD**
Designation : Professor
Department : Mechanical Engineering
Contact Details:
E-mail : amyadwad@nie.ac.in
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About me: Dr. Aravindrao M. Yadwad is a Professor in the Department of Mechanical Engineering at The National Institute of Engineering, Mysuru, with over 27 years of experience in teaching, research, and academic administration. At NIE, he has held several key leadership roles, including Dean (Student Welfare) from 2019 to 2023, Deputy Dean (Academic Affairs) from 2016 to 2019, and Member of the Academic Council from 2013 to 2015.

Under Government of Karnataka deputation, he served as Head of the Department and In-charge Principal at Government Engineering College, Chamarajanagar (2007–2009) and Haveri (2009–2010).

Dr. Yadwad has actively contributed to academic governance and quality assurance. He has chaired examination squads of Visvesvaraya Technological University, served as an expert for All India Council for Technical Education, Jawaharlal Nehru Technological University Hyderabad, and State Council for Vocational Training, and participated in technical panels at CSIR-Central Food Technological Research Institute.

His multidisciplinary research spans Production Engineering, Engineering Management, and Industrial Systems, with 50+ publications, guidance of 30+ UG and 5 PG projects, and supervision of three awarded and five ongoing Ph.D. scholars under VTU. He is a Fellow of the Institution of Engineers (India) (FIE) and a member of ISTE, ASME, and MCI, and is also a Chartered Engineer (C.Eng.).

Qualification:

B.E. (Kuvempu Univ.), **M.Tech** , **Ph.D.** (VTU, Belagavi) **PGDHRM., MBA** (KSOU-Mysuru)

Courses Taught:

- Engineering Management and Entrepreneurship**
- Engineering Management and Economics**
- Total Quality Management**
- Operations Management**
- Organizational Change and Development**
- Industrial Management and Entrepreneurship**
- Organizational Behaviour**

Publications:

Journal Publication:

1. I. S. Kumar, **A. M. Yadwad**, B. S. Talikoti, M. Maiya, Shivaramakrishna, R. Beeranu, and N. M. Pujar, "An experimental study on two-body dry sliding wear characteristics of rice straw particle filled polylactic acid composites," *Mater. Res. Exp.*, vol. 12, no. 11, Art. no. 115306, Nov. 2025, doi: 10.1088/2053-1591/adffe2.
2. K. N. Narasimha, **A. M. Yadwad**, N. Lakshminarasimaiah, and K. H. Preethi, "Blending recycled coarse aggregates from construction and demolition waste in construction of roads: A plausible solution for effective CDW management in India," in *E3S Web Conf.*, vol. 455, p. 03025, 2023, doi: 10.1051/e3sconf/202345503025.
3. **A. M. Yadwad**, S. Srinivasan, J. Dharanish, K. K. Yogeesh, and M. G. Emmi, "Energy harvesting from vibration on aircraft structures using piezoelectric materials," *Grenze Int. J. Eng. Technol. (GIJET)*, vol. 8, no. 1, pp. 1–10, Jan. 2022.
4. S. V. Doddaiyah, **A. M. Yadwad**, S. B. Mallur, and I. C. Somashekhar, "Impact of ERP benefits, ERP failure, & ERP success factors towards post implementation issues of ERP in manufacturing organizations," *Design Eng.*, pp. 4368–4383, Dec. 9, 2021.
5. S. Mohan Kumar, S. Suman, U. P. Kulkarni, **A. M. Yadwad**, and H. Patil, "A study on effective strategies to device future generation agriculture information system for Indian farmers," *Design Eng.*, pp. 5326–5333, Dec. 10, 2021.
6. K. B. Krishnamurthy, S. Mohan Kumar, **A. M. Yadwad**, and P. Chittaranjan, "Impact of applications of digital product presentation on enhancement of market share based on high conversion rate of the prospects," *Design Eng.*, pp. 4325–4340, Dec. 9, 2021.
7. I. C. Somashekhar, K. B. Krishnamurthy, S. Mohan Kumar, **A. M. Yadwad**, and H. Patil, "Digital product presentation impact and mediation effect on repurchase of online products," *Int. J. Multidiscip. Res. Rev.*, vol. 7, no. 7, pp. 560–571, 2021.
8. **A. M. Yadwad et al.**, "Study on synthesis and mechanical characterisation of bagasse reinforced polymer composites," *Int. J. Gen. Eng. Technol. (IJGET)*, vol. 10, no. 2, pp. 1–10, Jul.–Dec. 2021.
9. **A. M. Yadwad et al.**, "Harnessing solid waste to energy: A techno-commercially feasible solution for effective solid waste management in India," *Int. J. Gen. Eng. Technol. (IJGET)*, vol. 10, no. 1, pp. 75–84, Jan.–Jun. 2021.
10. K. N. Narasimha, N. Lakshminarasimaiah, **A. M. Yadwad**, R. P. Rajeshwari, and M. G. Emmi, "Analysis of solid waste in India with emphasis on waste segregation, waste to energy and waste to compost," *Int. J. Sci. Eng. Res.*, vol. 12, no. 7, pp. 375–382, Jul. 2021.
11. B. Talikoti, M. G. Emmi, **A. M. Yadwad**, and V. V. Kuppast, "Simulation of performance of boiler system for a bagasse unit using LabVIEW," in *Lecture Notes Mech. Eng.*, Singapore: Springer, 2020, doi: 10.1007/978-981-15-7557-0_7.

12. B. Talikoti, M. G. Emmi, **A. M. Yadwad**, V. V. Kuppast, and S. M., "Modelling of turbine systems in LabVIEW by using machine learning methods for condition monitoring," *Elsevier's Informat.*, Elsevier, 2020.
13. **A. M. Yadwad et al.**, "Microstructure and mechanical properties of fly ash cenospheres reinforced copper composites produced by powder," *Int. J. Mech. Prod. Eng. Res. Develop. (IJMPERD)*, vol. 10, no. 3, pp. 9233–9246, Jun. 2020.
14. K. B. Krishnamurthy, S. Mohan Kumar, P. Chittaranjan, **A. M. Yadwad**, and H. Patil, "A framework for integration of digital product presentations for enhancing market share in Indian MSME's," *J. Contemp. Issues Bus. Gov.*, vol. 25, no. 1, pp. 120–135, 2019, doi: 10.47750/cibg.2019.25.01.005.
15. **A. M. Yadwad et al.**, "Study of defects in aluminium extrusion process and evaluation by quality tools," *Int. J. Sci. Res. Eng.*, vol. 12, no. 7, pp. 1–10, Jul. 2021. (*Note: Limited author/journal details available.*)
16. P. Pradeep, **M. Y. Aravind Rao**, B. Suresha, I. Jamadar, and S. Seetharamu, "Mechanical behaviour and tribological properties of cenosphere-copper composites using design of experiments," *Mater. Today: Proc.*, vol. 43, pt. 2, pp. 1798–1809, 2021, doi: 10.1016/j.matpr.2020.10.494.
17. P. Pradeep, **Aravind Rao M. Y.**, S. Seetharamu, and M. G. Emmi, "Microstructure and mechanical properties of fly ash cenospheres reinforced copper composites produced by powder metallurgy route," *Int. J. Mech. Prod. Eng. Res. Develop.*, vol. 10, no. 3, pp. 9233–9246, Jun. 2020.
18. P. Pradeep, **M. Y. Aravind Rao**, and S. Seetharamu, "Influence of various sintering processes on cenosphere added copper composites," *Test Eng. Manag.*, vol. 82, pp. 5888–5894, 2020.
19. P. Pradeep, **M. Y. Aravind Rao**, and S. Seetharamu, "Synthesis, conductivity and sensitivity studies of polyaniline–iron oxide nanocomposites," *Ferroelectrics*, vol. 505, pp. 229–235, 2016.
20. S. V. Doddaiah, S. B. Mallur, and Aravindrao M. Yadwad, "Impact of ERP benefits, ERP failure, & ERP success factors towards post implementation issues of ERP in manufacturing organizations," *Design Eng.*, iss. 9, pp. 4368–4383, 2021.
21. S. V. Doddaiah, S. B. Mallur, and Aravindrao M. Yadwad, "Investigation and analysis of with and without ERP systems in manufacturing and automobile organizations," *J. Crit. Rev.*, vol. 6, no. 6, 2019.
22. S. V. Doddaiah, S. B. Mallur, and Aravindrao M. Yadwad, "Migrating from a legacy enterprise resource planning (ERP) system to a new ERP system: A case study," *Int. J. Res. Eng. Technol.*, vol. 3, spec. iss. 3, May 2014.
23. B. N. Nagendra Kumar, Shailesh P. S., Ramesh Babu. K., and **A. M. Yadwad**, "Conceptual design of laser assisted fixture for bending operation," *Int. J. Res. Eng. Technol.*, vol. 3, no. 5, pp. 1–10, May 2014.

24. B. N. Nagendra Kumar, Shailesh P. S., Ramesh Babu. K., and **A. M. Yadwad**, “Mechanism of laser assisted bending fixture - an overview,” *Int. J. Mech. Eng. Robot. Res.*, vol. 3, no. 3, pp. 1–8, Jul. 2014.
25. **A. M. Yadwad**, Bheemsh Arya, Harsha D. N., and Ravikumar S., “Study of sustainable utility of biomass energy technologies for rural infrastructure and village power—opportunities by developing bio village model,” *Int. J. Res. Eng. Technol.*, vol. 3, no. 11, pp. 1–12, Nov. 2014. [Online]. Available: <http://www.ijret.org>
26. Harsha D. N., **A.M. Yadwad**, Raghu, and M. D. Nadeem M., “Planning and design for commercialization of biogas bottling plant for production of green and low-cost fuel with utilization of biomass resources,” *Int. J. Sci. Eng. Res.*, vol. 6, no. 1, pp. 1297–1305, Jan. 2015. [Online]. Available: <http://www.ijser.org>
27. K. N. Narasimha, **A. M. Yadwad**, N. Lakshminarasimaiah, “Harnessing Solid Waste to Energy: A Techno-Commercially Feasible Solution for Effective Solid Waste Management In India”, Published in International Journal of General Engineering and Technology (IJGET) ISSN(P): 2278–9928; ISSN(E): 2278–9936 Vol. 10, Issue 1, Jan–Jun 2021; 75–84 © IASET
28. K. N. Narasimha, **A. M. Yadwad**, N. Lakshminarasimaiah, "Analysis of Solid Waste in India with emphasis on Waste Segregation, Waste to energy and Waste to Compost ” Published in International Journal of Scientific and Engineering Research (IJSER) - (ISSN 2229-5518) IJSER Volume 12, Issue 7, July 2021
29. Harsha D N, **Aravind Rao Yadwad**, Bheemsh Arya, Ravikumar S. “ Study of sustainable utility of biomass energy technologies for rural infrastructure and village power—opportunities by developing bio village model” *International Journal of Research in Engineering and Technology (IJRET)*, eISSN: 2319-1163 | pISSN: 2321-7308 Volume 3, Issue-11, Nov.2014. Available @ <http://www.ijret.org>
30. M. G. Emmi, **A. M. Yadwad**, V. V. Kuppast, and S. M., “Survey on bagasse cogeneration in sugar plants of north Karnataka,” *Int. J. Eng. Technol.*, vol. 7, no. 4.5, pp. 621, Sep. 2018, doi: 10.14419/ijet.v7i4.5.21171.

Conference Proceedings:

31. Emmi, M. G., **Yadwad, A. M.**, Kuppast, V. V., Talikoti, B. S., and Sampanna, M. **(2020)**: “Simulation of Performance of Boiler System for a Bagasse Unit Using LabVIEW”, *International Conference on Innovations in Mechanical Engineering (ICIME 2020)*, published in **Recent Trends in Mechanical Engineering**, Springer, Singapore, pp. 79–83, October 31, 2020.
32. **Yadwad, A. M. (2021)**: “Digital Product Presentation Impact and Mediation Effect on Repurchase of Online Products”, *Multidisciplinary National Conference on Digital India – Opportunities and Challenges*, organized by **Jain College (Affiliated to Bangalore University)** in association with IQAC, Karnataka, during December 22–23, 2021. (*Best Paper Award*).
33. Pradeep, P., et al., and **Yadwad, A. M. (2022)**: “Particle Size Distribution Analysis and Characterization of Cenospheres”, *International Conference on Advances in Production and*

- Industrial Engineering (ICAPIE 2021)*, Advances in Mechanical Engineering and Technology, pp. 619–633, March 23, 2022.
34. Pradeep, P., et al., and **Yadwad, A. M. (2018)**: “Mechanical Properties of Copper Fly Ash Cenosphere Composites Produced by PM Technique”, *International Conference on Advanced Production and Industrial Engineering (ICPAIE’18)* organized by **Delhi Technological University**, New Delhi, October 2018.
 35. Doddaiah, S. V., Mallur, S. B., and **Yadwad, A. M. (2014)**: “Customer Relationship Management (CRM) System; an Extended ERP (E2RP) System: A Case Study”, *2nd International Conference on Current Trends in Engineering and Management (ICCTEM-2014)* organized by **Vidyavardhaka College of Engineering**, Mysuru, Karnataka, during July 17–19, 2014.
 36. Doddaiah, S. V., Mallur, S. B., and **Yadwad, A. M. (2014)**: “Implementation and Use of Supply Chain Management (SCM) Software; an Extended ERP (E2RP) System in a Gear Manufacturing Industry”, *National Conference on Emerging Trends in Engineering Management (NCETEM-2014)* organized by **JSS Academy of Technical Education**, Bengaluru, during November 6–7, 2014.
 37. Doddaiah, S. V., Mallur, S. B., and **Yadwad, A. M. (2015)**: “The General Concept about Enterprise Resource Planning (ERP) and ERP II”, *National Level Technical Symposium Pratibimb-2015 on Reflection of Emerging Technologies* organized by **The National Institute of Engineering**, Mysuru, during April 10–11, 2015.
 38. Joshi, A., and **Yadwad, A. M. (2018)**: “Experimental Investigation of External Burnishing Process Parameters on Cylindrical Workpiece Using Taguchi Approach”, *2nd International Conference on Emerging Trends in Science, Engineering and Technology (ICETSET-2018)*, published in **International Journal of Management Technology and Engineering**, Vol. 8, Issue IX, pp. 1868–1875, September 2018.
 39. Narasimha, K. N., and **Yadwad, A. M. (2023)**: “Blending Recycled Coarse Aggregates from Construction and Demolition Waste in Construction of Roads: A Plausible Solution for Effective CDW Management in India”, *International Conference on Green Energy, Environmental Engineering and Sustainable Technologies (ICGEST 2023)* held at **Belagavi**, Karnataka, India, during October 5–6, 2023.
 40. Narasimha, K. N., and **Yadwad, A. M. (2025)**: “Analysis of Economic and Social Conditions of Stakeholders and their Role in Generation of Municipal Solid Waste in the City of Bengaluru”, *International Conference on Sustainable Technology (ICST-2025)* organized by **The National Institute of Engineering**, Mysuru, India.
 41. Siddarth, N., Nidhi, S. M., Poorna, D., Divyashree, D., and **Yadwad, A. M. (2026)**: “Oblique Wings: A Novel Aerodynamic Concept for Future Aircraft”, *International Conference on Developments in Sustainable & Innovative Design for Manufacturing, Mobility and Energy Systems (2026)* organized by **Dayananda Sagar College of Engineering** in collaboration with **King Mongkut's University of Technology North Bangkok**, Bengaluru, India, during February 27–28, 2026.
 42. Kuppast, V. V., Kuntoji, N., **Yadwad, A. M.**, Sathisha, H. M., and Talikoti, B. S. (2026): “Numerical and Experimental Analysis of Aerodynamic Performance of Two Different NACA Airfoils at Wide Range of Reynolds Numbers”, *International Conference on Developments in Sustainable & Innovative Design for Manufacturing, Mobility and Energy Systems (2026)* organized by **Dayananda Sagar College of Engineering** in collaboration with **King Mongkut's University of Technology North Bangkok**, Bengaluru, India, during February 27–28, 2026.

43. Suman, S., Shivanagi, C., and **Yadwad, A. M. (2026)**: “Bhoomija: Bridging the Information Gap for Indian Farmers through Personalized Conversational AI – Moving from Risk to Resilience”, *International Conference on Developments in Sustainable & Innovative Design for Manufacturing, Mobility and Energy Systems (2026)* organized by **Dayananda Sagar College of Engineering** in collaboration with **King Mongkut's University of Technology North Bangkok**, Bengaluru, India, during February 27–28, 2026.

Book Chapters: **Yadwad, A. M. et al., (2021):** *Practice of General Insurance*, **Scientific International Publishing House**, ISBN: 978-93-92992-04-9.

Other achievements:

Ph.D guidance:

Sl No.	Scholar's Name / Reg. No.	Guide Role / R-Centre	Title of the Thesis	PhD Status
1	Mahesh G. Emmi 4NI15PMJ04	Co-Guide / NIE	Development of Simulation model for Performance Evaluation of Bagasse unit in a Sugar Plant	Awarded on 27th May 2020
2	Doddaiah S.V. 4UB12PMN05	Co-Guide / UBDT	Investigation and Analysis of ERP and extended ERP systems in Manufacturing Industries and Automobile Service Sectors	Awarded on 23rd Feb 2023
3	Pragnya Pradeep 1CP15PMJ04	Guide / CPRI	Studying on synthesis, Characterization and Evaluation of Cenosphere added Metal Matrix Composites	Awarded on 19th July 2025
4	Narasimha K. N. 5VX17PCS10	Co-Guide / VTU RRC	Remediation to Existing Solid Waste Problem in Indian Metros with Emphasize on Bangalore City	Thesis Submitted to VTU
5	Santosh Kumar 4NI17PMA03	Guide / NIE	Mechanical and Fracture Characterization of Biodegradable Reinforced Polymers	Writing Thesis
6	Aswin B. Joshi 5VX17PMA50 (May 2017)	Guide / VTU-RRC	Investigation on fatigue life, crack initiation & propagation and service life by applying burnishing application on cylindrical surface	Preparing for Pre-PhD, Comp-viva
7	Dhikshitha R 4NI24PME02	Guide / NIE	Investigation of Structural and Thermal Stability of 3D Printed Multi-polymer Composites Reinforced With CNT Using Fused Deposition Modelling	Course work exam applied
8	Madaiah D C 4NI25PME02	Guide / NIE	Design and optimization of Corrosion Resistant Bio coating systems for Mild steel	Registered in 2025

Professional membership:

Sl. No.	Name of Institution / Society	License No.	Date of Issue
1	The Fellow of Institution of Engineers (India) – Fellow (FIE)	LM-136686-5	2019
2	The American Society of Mechanical Engineers (ASME)	M-101154743	October 2015
3	The Indian Society for Technical Education	LMISTE - 32945	2001
4	The Institution of Engineers (India) – Chartered Engineer (C.Eng.)	AM-088606-0	26 June 2002
5	The Combustion Institute (Indian Section)	LMCI-1000	2006
6	International Association of Engineers (IAENG)	LM-550639	28 January 2026

Patents: one awarded, two filed.

Training Programmes attended:

1. **Dr. Aravindrao M. Yadwad** participated in a One Week Online Short Term Training Program on “Renewable Energy and Utilization” organized by the Department of Mechanical Engineering, Sandip Institute of Engineering and Management, Nashik, from 26 May to 30 May 2020
2. **Dr. Aravindrao M. Yadwad** participated in a One Week Faculty Development Programme (FDP) on “Basic Concepts in Turbo Machinery and its Applications” organized by the Department of Mechanical Engineering, The National Institute of Engineering (NIE), Mysuru, from 24th to 28th August 2020 under TEQIP-III
3. **Dr. Aravindrao M. Yadwad** participated in a Webinar on “Additive Manufacturing: Applications, Future Trends & Research Opportunities” organized by the National Design and Research Forum (NDRF), The Institution of Engineers (India), Bengaluru, on 27th June 2020.
4. **Dr. Aravindrao M. Yadwad** ,participated in the International Webinar on "Learning **Creative Thinking** as a Skill" held on October 24, 2020, at Dr. Ambedkar Institute of Technology, Bengaluru, Karnataka.
5. **Dr. Aravindrao M. Yadwad** participated in a National Webinar on “Deep Learning Models and Applications” organized by the Department of Information Science and Engineering, Dr. Ambedkar Institute of Technology, Bengaluru, on 18th July 2020.

6. **Dr. Aravindrao M. Yadwad** participated in “Five Days Faculty Development Programme” on “Contemporary Practices in Quality – Industry Focus” organized by the Department of Industrial Engineering and Management, Bangalore Institute of Technology, Bangalore, from 7th September to 11th September 2020.
7. **Dr. Aravindrao M. Yadwad** participated in One Day National Webinar on “NAAC Revised Accreditation Guidelines & Role of IQAC in Post COVID-19 Era”, organized by the Internal Quality Assurance Cell (IQAC), St. Vincent Pallotti College of Engineering & Technology, Nagpur, in association with the National Assessment & Accreditation Council (NAAC), Bangalore, held on August 6, 2020.
8. **Dr. Aravindrao Yadwad**, participated in the webinar on “**Industrial Automation**” organized by the **Department of Mechanical Engineering, Angadi Institute of Technology and Management, Belagavi**, held on **19th June 2020**.

Other relevant information:

AICTE Evaluators assigned for Student Innovation:

Dr. Aravindrao Yadwad, nominated as a Judge in the Smart India Hackathon 2019 for the problem statements of All India Council for Technical Education (AICTE). The event was held at National Institute of Technology Tiruchirappalli from 8th July to 12th July 2019, where I evaluated projects under the themes Renewable Energy, Agriculture & Rural Development, and Smart Vehicles.

AICTE Expert Committee:

Dr. Aravindrao Yadwad, nominated as a member of the Expert Committee for a surprise visit to institutes at State of Telangana, Nagpur-Maharashtra, Surat-Gujrat from 21/12/2016 to 22/12/2016, as per the directions of All India Council for Technical Education (AICTE) Western Regional Office and JNTUH.

Dr. Aravindrao Yadwad, appointed as a Subject Expert by Jawaharlal Nehru Technological University Anantapur Andhra Pradesh, INDIA.

Dr. Aravindrao Yadwad, served as a Session Chair in the 3rd International Conference on Advanced Production and Industrial Engineering, organized by Centre for Advanced Production & Industrial Engineering Research (CAPIER), held at Hotel Caspia during 5–6 October 2018.

Dr. Aravindrao Yadwad, appointed as Subject Expert for Ph.D. at Jawaharlal Nehru Technological University Hyderabad by the Vice Chancellor.

Dr. Aravindrao Yadwad, nominated as a Member of the Expert Visit Committee at Navsari, organized by All India Council for Technical Education Central Regional Office, on 06 April 2019.

Dr. Aravindrao Yadwad, participated in the AICTE-UKIERI Technical Leadership Development Program for the Academic Year 2019–2020, organized by All India Council for Technical Education (AICTE) under the UK India Education and Research Initiative (UKIERI).

Dr. Aravindrao M. Yadwad participated in the five-day Faculty Development Programme on Universal Human Values. The event was organized by the Universal Human Values Cell at Bangalore Institute of Technology (BIT), Bengaluru, from September 27, 2021, to October 1, 2021

Dr. Aravindrao M. Yadwad Participated in an online One Week Faculty Development Programme on “*Advance Pedagogy in Higher Education*” organized in association with the Department of Economics, North Gauhati College, Assam, with support from Skillfinitly, held from 24th to 29th June 2024.

Short-term, Long –term Courses/FDPs/Conferences Organized till date:

S. No.	Title	Period	Nature of Involvement
1	Two Weeks TEQIP Training Programme on Lathe Operations	April 2006	Co-ordinator
2	One Day Workshop on “ Entrepreneurship: A Viable Career Option ”	May 2007	Co-ordinator
3	Cognie-Science: A Technical Paper Presentation	2007, 2011, 2015	Co-ordinator
4	One Week FDP on “ Energy Management ISO 50001 and Environmental Assurance ”	13–18 March 2017	Co-ordinator
5	—	—	—

Interaction with Outside:

Delivered an Expert Lecture at Rajkiya Engineering College Banda, Banda, Uttar Pradesh, India, during 18–20 September 2018.
